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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,196	04/22/2004	Eiichi Matsuzaki	02910.101387	5549
5514 7590 05/23/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			YENKE, BRIAN P	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
•			2622	
			MAIL DATE	DELIVERY MODE
			05/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/829,196	MATSUZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	BRIAN P. YENKE	2622				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on Elect	ion/Amendment (10 May 07)					
<u> </u>	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
•	ligation					
<ul> <li>4) ☐ Claim(s) 9-16 and 18 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>						
•						
5) Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.	6) Claim(s) 9-16 and 18 is/are rejected.					
8) Claim(s) are subject to restriction and/o	r election requirement					
o) Claim(s) are subject to restriction and/o	Clockon requirement.	,				
Application Papers						
9) ☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on 22 April 2004 is/are: a)	☐ accepted or b)☒ objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f) a)⊠ All b)□ Some * c)□ None of:						
· _ ·	·					
2. Certified copies of the priority document						
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	ս (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>5/10/05; 7/08/04; 4/22/04</u> .	6) Other:					

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## **DETAILED ACTION**

#### Election/Restrictions

1. Claims 1-8 and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species/invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in the reply filed on 10 May 07.

Applicant's election with traverse of Election/Restriction in the reply filed on 10 May 07 is acknowledged. The traversal is on the ground(s) that it would not be an undue burden on the Examiner to examine all the pending claims. This is not found persuasive because there is a plethora amount of prior art in the field of converting interlaced to progressive being performed via motion detection/information, thereby being a burden to search multiple inventions in such art.

The requirement is still deemed proper and is therefore made FINAL.

### **Drawings**

2. Figures 9-14 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9-16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Daigi et al., WO 02/37847.

In considering claims 9 and 18,

- a) the claimed video information...is met by field memories 1 and 2 (Fig 1)
- b) the claimed reference pixel motion generating...is met by difference judgement circuit 5 and intermediate value selection circuit 4 (Fig 1, in detail Fig 3)
- c) the claimed reference pixel motion information storing... is met by intermediate value selection circuit 4 which receives/holds the motion information in order to select which interpolation is performed
- d) the claimed intrafield interpolation pixel motion information generating means...is met by interpolation circuit 3 (Fig 1)
- e) the claimed interfield interpolation pixel motion information determining means... is met by the interpolation output of adder 33 and the interpolation value output from adder 34 (Fig 3).
- f) the claimed selecting...is met by intermediate value selection circuit (Fig 1) which includes a selection circuit 36 (Fig 3) which selects one of the interfield interpolation values or the intrafield interpolation value based upon the motion information from judgement circuit 5.

In considering claims 10-11,

Daigi discloses a intermediate value selection circuit 4 which includes an interfield interpolation means met by the output of adder 33 and adder 34 (Fig 3), which detects the amount of motion/difference between frames.

In considering claim 12,

Daigi discloses that intermediate value selection circuit in addition to the difference judgement circuit determines whether the image is moving or still and selects the appropriate interpolation method.

In considering claim 13,

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Daigi discloses interpolation circuit 3 (intrafield), intermediate value selection circuit 4 which receives the output from judgement circuit 5 and also includes two interfield interpolators (via adder 33 and 34) and the selection is made/determined based upon the image being a still image or moving image.

In considering claims 14-16,

Daigi discloses the computing/storing of at least 3 fields (meeting the one frame) wherein based upon the amount of motion or not will determine the interpolation performed (intrafield or interfield).

In considering claim 17,

Daigi discloses (Fig 3) wherein the interpolation pixel motion information output from interpolation circuit 3, interpolation adder 33, interpolation adder 34 are provided to the selection circuit without modification, meeting the claimed "without modification".

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.

In the even the applicant amends or disagrees with the above rejection, the examiner would like the applicant to distinguish the X references cited on the European search report, in order to expedite prosecution.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571)-273-8300

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is

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also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

B.P.Y / 17 May 2007

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